TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-31-01** **Date: 27-04-17**

Customer : Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura, Sub Division, BBMP, Bangalore.

Project Name : Repair of Anganvadi building at Varadarajanagara, Vinayakanagara, Ramachandrapura, Singapura, Kuvempunagara and M.S.Palya in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003

Customer's Reference : BBMP/EE/BTP/WO/136/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-03-17

Sample ID No : 2017-03-31-01-02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	29/03/2017	26/04/2017	150.22 X 150.97 X 150.14	22679	8.377	532.9	23.5	23.2
2	PCC	M20	29/03/2017	26/04/2017	150.65 X 150.28 X 150.95	22640	8.390	527.5	23.3	
3	PCC	M20	29/03/2017	26/04/2017	150.28 X 150.76 X 150.11	22656	8.214	518.8	22.9	

Note:
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Prepared by
Harsitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-03-31-01 **Date: 06-04-17**

Customer : Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura, Sub Division, BBMP, Bangalore.

Project Name : Repair of Anganvadi building at Varadarajanagara, Vinayakanagara, Ramachandrapura, Singapura, Kuvempunagara and M.S.Palya in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003

Customer's Reference : BBMP/EE/BTP/WO/136/2016-17

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 31-03-17

Sample ID No : 2017-03-31-01-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	29/03/2017	05/04/2017	150.17 X 150.32 X 150.66	22574	8.254	388.3	17.2	17.4
2	PCC	M20	29/03/2017	05/04/2017	150.87 X 150.12 X 150.65	22649	8.276	394.1	17.4	
3	PCC	M20	29/03/2017	05/04/2017	150.98 X 150.34 X 150.23	22698	8.189	399.5	17.6	

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Harsitha

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TEST /REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-03-02** **Date: 10-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Repair of Anganvadi building at Varadarajanagara, Vinayakanagara, Ramachandrapura, Singapura, Kuvempunagara and M.S.Palya in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/136/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-02-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	03-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	55	55	5.5	94.5	90-100	90-100	90-100	95-100
3	2.36 mm	27	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	45	127	12.7	87.3	30-70	55-90	75-100	90-100
5	600 micron	327	454	45.4	54.6	15-34	35-59	60-79	80-100
6	300 micron	271	725	72.5	27.5	5-20	8-30	12-40	15-50
7	150 micron	191	916	91.6	8.4	0-10	0-10	0-10	0-15
8	Pan	84	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-03-02** **Date: 10-03-17**

Sample ID No : **2017-03-03-02-03**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	3.10	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	4.6	Not more than 15 percent

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Prepared by
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-03-02** **Date: 10-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Repair of Anganvadi building at Varadarajanagara, Vinayakanagara, Ramachandrapura, Singapura, Kuvempunagara and M.S.Palya in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer Reference	:	BBMP/EE/BTP/WO/136/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-02-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	03-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	218	218	4.4	95.6	95-100
3	10 mm	2380	2598	52.0	48.0	25-55
4	4.75 mm	2300	4898	98.0	2.0	0-5
5	Pan	102	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-03-02** **Date: 10-03-2017**

Sample ID No : 2017-03-03-02-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**10.6**	_
2	Elongation Index(%)	**12.4**	_
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.52**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56**	_
6	Water Absorption(%)	**0.24**	_
7	Ten percent fine value(KN)	**195**	_
8	Aggregate crushing Value(%)	**24.6**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	**23.2**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-03-02** **Date: 10-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Repair of Anganvadi building at Varadarajanagara, Vinayakanagara, Ramachandrapura, Singapura, Kuvempunagara and M.S.Palya in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/136/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-02-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	03-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	167	167	3.34	96.7	95-100
3	20 mm	1876	2043	40.86	59.1	30-70
4	10 mm	1678	3721	74.42	25.6	10-35
5	4.75 mm	1090	4811	96.22	3.8	0-5
6	Pan	189	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-03-02** **Date: 10-03-2017**

Sample ID No : 2017-03-03-02-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	13.2	_
2	Elongation Index(%)	11.9	_
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.21	_

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Harshitha

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Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-03-02** **Date: 01-04-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Repair of Anganvadi building at Varadarajanagara, Vinayakanagara, Ramachandrapura, Singapura, Kuvempunagara and M.S.Palya in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/136/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-02-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-03-2017 to 31-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.75	–
2	Finess by Air permeablity method (m^2/kg, Min)	290.5	225m^2/kg, Min
3	Density (gm/cc)	3.3	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	205 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-03-03-02** **Date: 01-04-2017**

Sample ID No : **2017-03-03-02-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-03-02** **Date: 15-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Repair of Anganvadi building at Varadarajanagara, Vinayakanagara, Ramachandrapura, Singapura, Kuvempunagara and M.S.Palya in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/136/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-02-04
Sample Type	:	Bhuwalka Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	04-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Bhuwalka	Fe500	8mm	0.392	526	614	18.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Bhuwalka	Fe500	8mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-03-02** **Date: 15-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Repair of Anganvadi building at Varadarajanagara, Vinayakanagara, Ramachandrapura, Singapura, Kuvempunagara and M.S.Palya in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/136/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-02-05
Sample Type	:	Bhuwalka Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	04-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Bhuwalka	Fe500	10mm	0.613	538	641	19.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Bhuwalka	Fe500	10mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-03-02** **Date: 15-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Repair of Anganvadi building at Varadarajanagara, Vinayakanagara, Ramachandrapura, Singapura, Kuvempunagara and M.S.Palya in ward no.11, (Kuvempunagara) Vidyaranyapura sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvester Arcade, 3rd floor, East Park Road, Malleswaram, Bangalore-560003
Customer's Reference	:	BBMP/EE/BTP/WO/136/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-02-06
Sample Type	:	Bhuwalka Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	04-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Bhuwalka	Fe500	12mm	0.868	558	678	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Bhuwalka	Fe500	12mm	Satisfactory	Satisfactory

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Assistant Executive Engineer
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